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- 4. (twice amended) A biocide concentrate composition for use in hard water, and in the presence of organic material, consisting of: a.) a surfactant [agent] for complexing or stabilizing iodine; b.) a biocidal amount of iodine complexed by the surfactant [agent], or by hydriodic acid, and the surfactant; c.) propionic acid, and propionates, their salts and esters, [for pH
- control, and for combining] with ambient NH, or ammonium compounds arising from fermenting litter and manure to form ammonium propionate, thereby producing residual biocidal activity, and inhibiting microorganism formation [,including preventing mold formation]; [and] d.) acidifiers to adjust the composition pH to within the acid range [.] and, optionally propylene glycol, a buffer and water.
- 6. (once amended) The composition of claim 4, [including] wherein propylene glycol [and the like] is present for inhibiting dust formation.
- 7. (twice amended) A biocide concentrate composition, consisting of: a.) a surfactant [agent], for complexing or stabilizing iodine and hydriodic acid;
- b.) at least about 0.1% of a biocidal amount of iodine complexed by the surfactant [: at least about 0.1%]; and, at least about 0.01% of hydriodic acid [: at least about 0.01%] for reducing surface tension; c.) at least about 10% of propionic acid, [and equivalents] _ propionates, their salts and esters [for combining] with ambient ammonia or ammonia containing compounds arising from fermenting litter and manure to form ammonium propionate [: at least about 10%]; [and,]

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R-) PAR acidifier[s] to adjust the composition pH to within the acid range;

and, optionally propylene qlycol, a buffer and water.

- 8. (once amended) The composition of Claim 7, [including] wherein propylene glycol [and the like] is present for solubilizing components of the composition to inhibit dust formation and, providing product stability and increasing penetrability into microorganisms and surfaces.
- 9. (once amended) The composition of claim 4, in which the surfactant [comprises] is a polyoxyethylene polyoxypropylene block copolymer.
- 10. (once amended) The composition of claim 4, in which the surfactant is selected from the [class] group consisting of non-ionic, laureth (11 16) carboxylic acid; PVP; nonyl phenoxypolyethoxy ethanol; polyethenoxy; and, polyethoxylated polyoxypropylene block copolymer.
- 11. (once amended) The composition of claim 4, which consists of:

 at least about 0.1% iodine [: at least about 0.1%]; at least about

 0.01% hydriodic acid [: at least about 0.01%]; at least 10% propionic

 acid, [and the like] propionates, their salts and esters;

 an acid to obtain a pH of about -2 to 3; at least about 1% of a buffer

 [; at least about 1%] and at least about 5% of propylene glycol, [:

 at least about 5%] all parts by weight.

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Page 9. U.S. Serial No.; 09/532,140 12. (once amended) The composition of Claim 10, which comprises: about 0.1% - 5% iodine [: about 0.1% - 5%]; about 0.01% - 2% hydriodic acid [: about 0.1% - 5%]; about 10% - 75% propionic acid, [and the like: about 10% - 75%], propionates, their salts and esters; an acid sufficient to obtain a ph of about - 2 to 3; at least 1% of a buffer, and, about 5% - 30% of propylene glycol, [and the like,] all parts by weight.

- (once amended) The composition of claim 11, in which the [acidifying agent] acidifier and buffer is an acid selected from the [class] group consisting of citric acid, lactic acid, sorbic acid, maleic acid, fumaric acid [and the like] and their salts and esters, and mixtures thereof.
- 14. (once amended) The composition of claim 13, [comprising a water diluent] wherein water is present as a diluent.
- 15. (once amended) The composition of claim 13, [comprising a water diluent of about 20% - 40% by weight of the composition] wherein about 20% - 40% of water is present as a diluent in the composition.
- 18. (once amended) The composition of claim [16] $\underline{4}$, in which the composition has a shelf life of up to about one year to eighteen months, at ambient temperatures.

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- 21. (twice amended) A method for reducing or eliminating biocides from surfaces of animal husbandry, animal feed and food processing operation in the presence of hard water, consisting of: applying to the surface a solution containing a surfactant [agent] a biocidal amount of hydriodic acid and complexed or stabilized iodine, propionic acid [and equivalent acids] propionates, their salts and esters for pH control, and [for combining] ambient NH, or ammonia containing compounds arising from fermenting litter and manure to form ammonium propionate, thereby producing residual biocidal activity, and inhibiting [or preventing] microorganism [including mold formation] infestations; and, acidifiers to adjust the composition pH to within the acid range.
- 23. (once amended) The method of claim 21, including propylene glycol [and the like] for inhibiting dust formation.
- 24. (once amended) The method of claim 21, [including] wherein the solution further comprises propylene glycol [and equivalent glycols] for dissolving components of the composition, and for inhibiting dust formation.
- 26. (once amended) The method of claim 21, in which the surfactant is selected from the [class] group consisting of polyethenoxy; non-ionic, laureth (11 16) carboxylic acid; PVP; nonyl phenoxypolyethoxy ethanol; and, polyethoxylated polyoxypropylene block copolymer.

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- 28. (once amended) The method of claim 21, in which the solution [comprises] consists of: at least about 0.1% iodine [: about at least 0.1%]; at least about 0.01% hydriodic acid [: at least about 0.01%]; at least about 10% propionic acid, [and the like: at least about 10%] propionates, their salts and esters; [phosphoric acid and/or sulfuric acid, and the like] an acidifier sufficient to obtain a pH of about -2 to 3; [an acidifying agent and] about 0% - 10% buffer [: about 0% - 10%]; and, about 0% - 10% propylene glycol [about 0% - 10%, and equivalents thereof], all parts by weight, for combining with ambient NH, to form ammonium propionate.
 - 29. (once amended) The method of claim 28, in which the solution [comprises] consists of: up to about 5% iodine [: up to about 5%]; up to about 0.01% - 2% hydriodic acid; [: up to about 0.01% - 2%] about 10% - 75% propionic acid, [and the like: about 10% - 75%] propionates, their salts and esters, [phosphoric acid and/or sulfuric acid, and the like] an acidifier sufficient to obtain a pH of about -2 to 3; about 0% - 10% buffer [about 0% - 10%]; and, about 5% - 30% propylene glycol, [and the like: about 5% - 30%], all parts by weight, for combining with ambient NH, to form ammonium propionate.
 - 30. (once amended) The method of claim 28, in which the [acidifying agent] acidifier and buffer is an acid selected from the [class] group consisting of citric acid, lactic acid, maleic acid, fumaric acid, sorbic acid [and the like], their salts and mixtures thereof.

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31. (once amended) The method of claim [29] 21, in which the [composition includes] solution further comprises water as a diluent.

- 34. (once amended) The method of claim [20] 21 in which the [composition] solution has a shelf life of at least one year at ambient temperatures.
- 35. (once amended) The method of claim 21, in which activity of the [composition] solution is maintained in the presence of up to about 50% of organic matter.
- 41. (twice amended) The method of claim 28, [for use as a bovine teat dip] wherein the solution is applied as a bovine teat dip.
- 42. (new) The composition of claim 4, for use as a bovine teat dip.